PRACTICAL EXERCISE PRINTOUT ANALYSIS AN/TYC-39(A)

INTRODUCTION:

This practical exercise will provide you with the time to practice interpretation of received service printouts and determine corrective action in the operation of the MS. Your learning objective for this lesson is to correctly interpret service printouts, determine corrective action in three of four printouts within 30 minutes and to correctly answer 7 of 10 questions within 30 minutes.

ITEMS YOU WILL NEED FOR THIS LESSON:

- 1. Operational AN/TYC-39A.
- 2. TM 11-5805-790-12-3.
- 3. TM 11-5805-790-12-4.
- 4. TM 11-5805-790-12-5.

THE LESSON STRATEGY:

This practical exercise directs you in your practice of interpreting received operational and traffic printouts and determining necessary action in the operation of the AN/TYC-39(A). The primary aid you will use is TM 11-5803-790-12-4.

- 1. In Part One, perform printout analysis in the AN/TYC-39A within 30 minutes using TM 11-5805-790-12-3 through 12-5.
- 2. Your instructor will initial your PE during your performance.
- 3. In Part Two, answer questions by filing in the blanks or circling the answer.
- 4. When you have completed Part Two, ask your instructor to grade it for you.
- 5. If it is not clear what you are required to do, ask your instructor for clarification.

PART ONE:

Circle the proper answer or fill in the blank as you perform printout interpretation in the AN/TYC-39A. Have instructor initial upon completion of each printout.

1.	Printout Type: Traffic or Operational	
	Printout Reference Paragraph	
	Supervisor or Traffic Service Action Required?	YES/NO
	INSTRUCTOR'S INITIALS	
2.	Printout Type: Traffic or Operational	
	Printout Reference Paragraph	
	Supervisor or Traffic Service Action Required?	YES/NO
	INSTRUCTOR'S INITIALS	
3.	Printout Type: Traffic or Operational	
	Printout Reference Paragraph	
	Supervisor or Traffic Service Action Required?	YES/NO
	INSTRUCTOR'S INITIALS	
4.	Printout Type: Traffic or Operational	
	Printout Reference Paragraph	
	Supervisor or Traffic Service Action Required?	YES/NO
	INSTRUCTOR'S INITIALS	

PART TWO:

the r	1. You have received a floppy disk drive printout with reason code DIRE. What does DIRE stand for?
2.	Why would a system failed printout occur?
print	You have received a message error/discrepancy traffic tout with the mnemonic TSF. What is the program description program response for this code?
switc	You are given a phone number for one of your circuit ched data terminals. What data base (DABA) chapter will you the associated RI?
	What is the standard information printed on all data base A) printouts?
6. refer	Explain why you would receive a traffic printout rencing queue and disk backlog: "SYS UPPER".

______ 0969 099 NRI DOCCCZYVW RUTCCST0002 0990959 40000307SL075/0043 0969 099 NRI 40000307 L075 ,RUTCLAP=S NNNN OATUZYVW RUTCCSD0043 0990959-UUUU--RUTCCSA. ZNR UUUUU ВТ UNCLAS SVC RUTCCST0002 0990959 INVALID ROUTING MESSAGE NOT DELIVERED TO RI(S) LISTED FOR SPECIFIED REASON: MESSAGE SECURITY INCOMPATIBLE WITH DELIVERY RI - REPROTECT FOR: RUTCLAP #0043 _____ 7. Are these printouts traffic or operational? 8. What printout reference paragraphs would you use? 9. What are the reasons for the printouts? 10. What did the switch do to the original message?

Use the following printouts for questions 7 through 10:

SUMMARY:

You have now demonstrated your knowledge on the AN/TYC-39(A) message switch. You have also demonstrated your ability to perform printout analysis in the operation of the MS. With this knowledge and continued practice, your ability will continue to increase, making you a better operator or supervisor of the AN/TYC-39(A) message switch.

SUPERVISOR POSITION OPERATIONS

INTRODUCTION:

This practical exercise allows you to check and reinforce your understanding of the supervisory position and commands. Your objective is to correctly perform 8 of 10 supervisory procedures within 1 hour and correctly answer at least 14 of 20 questions within 1 hours.

ITEMS YOU WILL NEED FOR THIS EXERCISE:

- 1. Operational AN/TYC-39A with terminals.
- 2. TM 11-5805-790-12-3.
- 3. TM 11-5805-790-12-4.
- 4. TM 11-5805-790-12-5.

THE LESSON STRATEGY:

- 1. You will have 1 hour to complete part one in the AN/TYC-39A and 1 hour to complete part two written portion of this practical exercise.
- 2. When you have completed this exercise, turn it into your instructor.
- 3. If there are no questions you may begin.

- 1. Using TMs 11-5805-790-12-3, 4, 5 perform 10 supervisory procedures in the AN/TYC-39A.
- 2. Using TMs 11-5805-790-12-3, 4, 5 answer the 20 questions on the practical exercise provided.
- 3. When you have completed the exercise have your instructor grade it for you.
- 4. If it is not clear what you are required to do, ask your instructor for clarification.

PART	ONE:
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Perform the following steps in the AN/TYC-39A.

1.	Obser	rve the	e cha	annel	stat	us	area	of	the	Supervisory	VDT.
What	real	lines	are	assig	gned	in	the	data	bas	se?	

Line	numbers:	

- 2. Perform the following procedures:
 - a. Print message switch to circuit switch display.
 - b. Send message switch terminal display.
- 3. Perform the DABA SWIT command.
- 4. Enter one DABA command to obtain all the line classmarks and router information for line 08.
- 5. Using information on the printout from the previous step, send a check message to line 8.
- 6. Perform the following channel loopback tests on line 6 and indicate whether each test passed or failed:

LTU: PASS or FAIL

MODEM: PASS or FAIL

REMOTE: PASS or FAIL

7. Perform configuration commands as directed by your instructor.

- 8. Perform a device self-check on an LPU.
- 9. Perform the status command that will give you a printout of configuration status information.
- 10. Perform the command that will give you the next ASN to be assigned.

PART TWO:

Answer the following questions by filling in the blank or circling the best answer.

- 1. What rows on the supervisory VDT contain the individual channel status?
 - a. Rows 1 and 2.
 - b. Rows 2 and 3.
 - c. Rows 4 and 5.
 - d. Rows 21 through 25.
- 2. How can you stop the system alarm "RRI"?
 - s. Press the ACK key.
 - b. Press the MODE key.
 - c. Enter NCRR A.
 - d. Enter RTOV.
- 3. What command should you use if you cannot guarantee message accountability?
 - a. ABCY A.
 - b. ABCY D.
 - c. SACK.
 - d. &CAN.
- 4. Which command allows you to put a channel in-service by channel number?
 - a. CCSR.
 - b. LCSR.
 - c. CISR.
 - d. LISR.

- 5. Which of the following commands will receive a NAK?
 - a. STAT RIC 046.
 - b. RCSN RUTCAKE I.
 - c. LOSR 046.
 - d. CMSG RUTCAKE.
- 6. Which command makes a device available for on-line use?
 - a. CONN.
 - b. DCON.
 - c. YAVL.
 - d. YIGN.
- 7. What would be the command line to loopback channel 20 at the modem?
 - a. LOOP CHN 020 MODEM.
 - b. ECMD LPBM MODEM 020.
 - c. CHEK CHN 020 MODEM.
 - d. LPBK CHN 020 MODEM.
- 8. Where do you find the results of the command performed in question 7?
 - a. SUP or COM LPU.
 - b. SUP or COM VDT.
 - c. OFF-LINE MAINT VDT.
 - d. A & B.

	h command would give you complete line classmarks and nformation on a specific channel?
a.	DABA CHN 007 RI.
b.	DABA LINE 07 A.
c.	DABA RI RUTCAKE.
d.	DABA XREF LINE.
10. While	e in the display mode what key is used to return to the ode?
a.	DISM.
b.	NO.
c.	ACK.
d.	MODE.
	he channel status area, what indicates that a channel d a loopback test?
a.	+*.
b.	LA.
С.	LP.
d.	B & C.
12. What routers?	command gives the number of messages in queue for
a.	STAT MBC.
b.	STAT MBR.

c. DABA RI ALL.

d. DABA ALL.

13.	How are RIs in each node listed on the graphic display?
	When you press the supervisory function ACKT key, what ens on the VDT screen?
15.	What reports does CANP cancel?
16.	Which command would initialize an SDU?
17.	What devices are required to initialize an SDU?
18.	Which command is used for copying a floppy disk?
19. and †	What command allows you to operate on-line with one control two history SDUs.

					operator	directives	that	а	logged-on
admin	istra	ator	can perf	orm.					

SUMMARY:

You have just demonstrated your ability to identify the use and format of the AN/TYC-39A supervisory position. With this knowledge and continued practice, your ability will continue to increase which will make you a better operator/supervisor of the message switch AN/TYC-39(A).

MESSAGE DIVERSION

INTRODUCTION:

This practical exercise will provide you with the time to practice commands associated with message diversion procedures as they are applied in the message switch AN/TYC-39(A). Your learning objective for this lesson is to practice implementing and removing message diversions until you are able to correctly perform 14 of 20 message diversion procedures within 60 minutes and to correctly answer 7 of 10 questions within 30 minutes.

ITEMS YOU WILL NEED FOR THIS LESSON:

- 1. Operational AN/TYC-39(A).
- 2. TM 11-5803-790-12-2.
- 3. TM 11-5803-790-12-3.
- 4. TM 11-5805-790-12-4.

THE LESSON STRATEGY:

Part one of this practical exercise directs you in your practice of performing message diversion procedures. Part two directs you to answer 10 questions by filling in the blank or circling the best answer. The primary aid you will use is TM 11-5805-790-12-3.

- 1. In Part One, perform message diversion procedures within 1 hour using TM 11-5805-790-12-2 and -3 and figure 1 or 2.
- 2. Your instructor will evaluate your printouts and initial your PE during your performance.
- 3. In Part Two, answer questions by filing in the blanks or circling the best answer.
- 4. When you have completed Part Two, ask your instructor to grade it for you.
- 5. If it is not clear what you are required to do, ask your instructor for clarification.

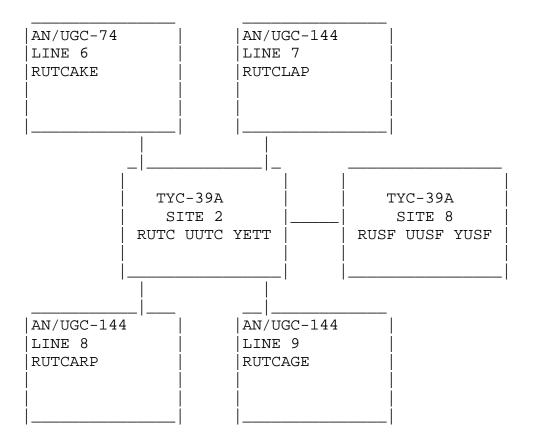


FIGURE 1

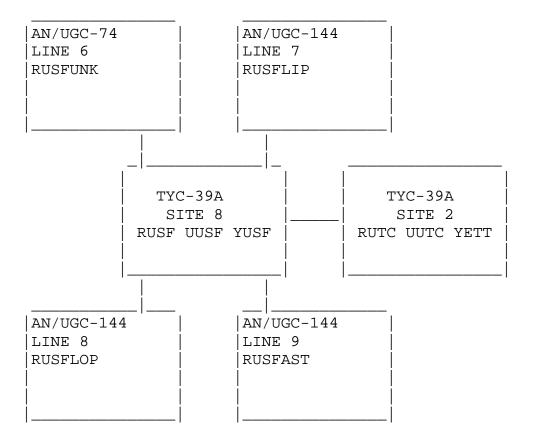


FIGURE 2

PART ONE:

Have instructor perform TGEN commands to add reintroduction information to database. Using TM 11-5805-790-12-3, perform the following message diversion procedures using Figure 1 or 2 as directed by your instructor.

Step 1. Write and perform the status command that will give you information about all operator-initiated diversions in effect. If there are no diversions in effect continue with step 2. If any diversions are in effect have instructor remove them and then continue with step 2.

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Command			
Collilland			

Step 2. Write and perform the command which will allow you to altroute by CHANNEL all messages (all media and precedence) for RUSFUNK (Figure 2) or RUTCAKE (Figure 1) to be altrouted to channel 8.

Command_____

Step 3. Write and perform the command which will allow you to altroute confidential and priority messages from channel 08 to channel 9 by ROUTING INDICATOR.

Command

Step 4. Write and perform the command which will allow you to altroute all messages for line 9 by channel to traffic service position of DISTANT message switch.

Command

Step 5. Write and perform the command which will show the status of only altroutes.

Command_____

- Step 6. Display and print screen that shows all dedicated terminals.
- Step 7. Display and print screen that shows message switch to message switch connections.
- Step 8. Write and perform the command to discontinue altroute performed in step 2.

Command		
-		

performed in step 3.
Command
Step 10. Write and perform the command to discontinue altroute performed in step 4.
Command
Step 11. Write and perform the status command that will show only altroute information. There should be no altroutes in effect. If there are, remove them using the proper commands.
Command
Command
Step 13. At the traffic service position send a message to router on channel 8. If you have performed previous step properly the message should have been reintroduced (diverted) and should print at your traffic service printer.
Step 14. Write and perform the command to show all diversions in effect.
Command
Step 15. Write and perform the command to deactivate reintroduction procedure performed in Step 12.
Command
Step 16. Write and perform the command to intercept messages by router and by immediate precedence for channel 6.
Command
Step 17. Write and perform a status command that will give information on only intercept diversions in effect.
Command

Step 9. Write and perform the command to discontinue altroute

Step 18. Write and perform the command to discontinue intercept diversions that are in effect.
Command
Step 19. Write and perform a status command that will give you information about all diversions in effect. If any diversions are still in effect remove them using the proper commands.
Command
Step 20. Write and perform the command to activate reintroduction for the entire switch.
Command
When all 20 steps are completed, tear off paper from printers, sign, and turn in to instructor for evaluation.
INSTRUCTOR'S INITIAL:

PART	רשר	:
LVIVI	TWO	•

	1.	What	types of messages are not altrouted?
what	2. is th		message is subject to more than one diversion, erarchy of the diversions?
ident			g the graphic display screens, explain how to ate paths that are in effect.
	4.	What	types of messages are not intercepted?
		a.	CRITIC messages.
		b.	High-precedence answer backs.
		C.	Mode II acknowledgements.
		d.	All of the above.
infor	5. rmatio		status commands will give you altroute
		a.	STAT ALT.
		b.	STAT MSG.
		c.	STAT ICA.

d. A & B.

6. status sur diversion	nmary	you have alrouting in effect, what on the channel indicates that a channel has some type of message ffect?
	a.	+.
	b.	*.
	C.	%.
	d.	\$.
7. stored?	When	intercept is in effect, where are messages
	a.	Storage device unit.
	b.	On-line processor.
	C.	Pseudo line 76.
	d.	Returned to OSRI for storage.
8. delivered		system alarm indicates messages are being ne limbo line?
	a.	ILI.
	b.	LIM.
	C.	LPU.
	d.	ORB.
9. initiated?		system alarm indicates overflow has been
	a.	OVT.
	b.	STL.
	C.	*TD.
	d.	WOV.

- 10. What graphic display screen includes the LIMBO line connections?
 - a. MS-CS.
 - b. MS-MS.
 - c. MS-DIN.
 - d. MS-TERM.

SUMMARY:

You have now demonstrated your knowledge and ability on message diversion procedures as they are used in the AN/TYC-39(A). With this knowledge and continued practice, your ability will increase and will help make you a better operator/supervisor.

END

MESSAGE TRACE AND RETRIEVAL PROCEDURES

INTRODUCTION:

This practical exercise will provide you with the time to practice commands associated with message trace and retrieval procedures as used in the AN/TYC-39(A). Your learning objective for this lesson is to implement trace and retrieval commands until you are able to correctly enter three of five commands within 30 minutes and to correctly answer 7 of 10 questions.

ITEMS YOU WILL NEED FOR THIS LESSON:

- a. Operational AN/TYC-39(A).
- b. 2-AN/UGC-144 dedicated terminals.
- c. 1-AN/UGC-74 dedicated terminal.
- d. TM 11-5805-790-12-2.
- e. TM 11-5805-790-12-3.

THE LESSON STRATEGY:

Part one of this practical exercise directs you in your practice of performing message trace and retrieval procedures. Part two requires you to answer 10 questions on trace and retrieval. The primary aid you will use is TM 11-5805-790-12-3.

- 1. In Part One, perform trace and retrieval procedures within 30 minutes using TM 11-5805-790-12-3.
- 2. Your instructor will evaluate your printouts and initial your PE during your performance.
- 3. In Part Two, answer questions by filling in the blanks or circling the best answer.
- 4. When you have completed Part Two, ask your instructor to grade it for you.
- 5. If it is not clear what you are required to do, ask your instructor for clarification.

PART ONE:

Using TM 11-5805-790-12-3, paragraph 5-24, perform the following procedures associated with message trace and retrieval as directed. If you receive a report that says "Cancel or continue," ask your instructor which to perform.

	inue," ask your instructor which to perform.
1.	Procedure 1: Retrieve a range of messages by ASN along with trace report with MCB data. Send entire message copies to traffic service position only. Obtain ASNs from instructor:
	ASNs:
	COMMAND:
	Procedure 2: Perform trace procedures to determine message veries to channel 06 using a specific time period. Obtain range from instructor.
	TIME RANGE
	COMMAND:
orig orig OSSN proc	Procedure 3: Initiate TWO trace procedures using inating station routing indicator (OSRI) and range of inating station sequence numbers (OSSNs). Obtain OSRIs and s from instructor. Since your main objective for this edure is to CANCEL the 2d trace once the first one has n, you must use SPEED when inputting all these command s.
	1st OSRI/OSSNS
	2d OSRI/OSSNS
	1st TRACE COMMAND:
	2d TRACE COMMAND:
	COMMAND TO CANCEL TRACE:

report; send copies of message headers only to traffic service. Obtain CSNs from instructor.
CSNs
RETRIEVE COMMAND
5. Procedure 5: Retrieve messages delivered to a channel 7 using a range of time: long report, deliver retrieved messages to traffic service position only. Obtain time range from instructor.
TIME RANGE
RETRIEVE COMMAND

4. Procedure 4: Retrieve messages on input from channel 6 using a range of channel sequence numbers (CSNs); no trace

PARI IWO	PART	TWO	
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1.	What	do message trace commands allow you to do?
2.	Defin	ne the AN/TYC-39A retrieval process.
3.	Which	n command cancels a trace?
	a.	NTRA.
	b.	DTRA.
	C.	CANT.
	d.	CNAR.
4. TRAC/		alarm is displayed when the left limit is found for a command with OSSN or CSN?
	a.	LFT.
	b.	LSN.
	c.	TRA.
	d.	NTR.
5. choos		using TSH in a retrieval command, what are you

	When sing?	using TSM in a retrieval command, what are you
7.	If yo	ou want to print the trace report with MCB data and
prin	tout (events, what specification would you choose?
	a.	ALL
	b.	N
	c.	S
	d.	L
8. and		command must be entered to acknowledge the TRA alarm rminate the RETR/TRAC command?
	a.	CONT N.
	b.	CONT Y
	c.	NTRA
	d.	STOP TRA
9. requ		is the priority of processing if more that one trace s queued at the same time?

10. A trace report has been printed and has a report traile Tield that states: "TRACE MAY BE CONTINUED." What does this	
mean and what command would you use to search for earlier messages?	

SUMMARY:

You have now demonstrated your knowledge on trace and retrieval procedures as they are used in the message switch AN/TYC-39(A). You have also demonstrated your ability to perform trace and retrieval and operate the message switch AN/TYC-39(A). With this knowledge and continued practice, your ability will increase, making you a better operator supervisor.

END